2

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



- 1 Maria 1 Ma

(43) International Publication Date 1 August 2002 (01.08.2002)

PCT

(10) International Publication Number WO 02/060035 A1

(51) International Patent Classification7: 7/18, 19/34, 21/48, 23/00

H02K 1/06,

- (21) International Application Number: PCT/AU02/00081
- (22) International Filing Date: 25 January 2002 (25.01.2002)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: PR 2691

25 January 2001 (25.01.2001) AU

(71) Applicant and

- (72) Inventor: FAHY, Arthur, James [AU/AU]; 46 Postmans Track, Helensburgh, NSW 2508 (AU).
- (74) Agent: HODGKINSON OLD MCINNES; Levels 3 and 4, 20 Alfred Street, Milsons Point, NSW 2061 (AU).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

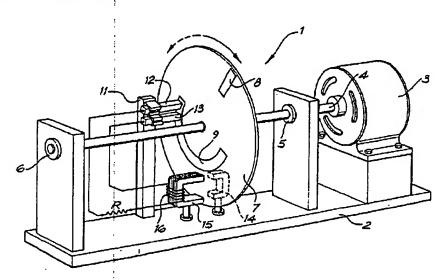
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ELECTRIC GENERATOR



(57) Abstract: The present invention discloses a generator (1) able to generate either unidirectional current or bi-directional current. A rotatable disc (7) has a conductive track (9) and a ferromagnetic bridge (8). Brushes (12, 13) switchingly open circuit a coil (16) or connect the coil (16) to a load resistor (R). Movement of the disc (7) results in bridge (8) shunting a core (15) of the coil (16). This generates an emf in the coil (16). If the circuit is closed current flows in the resistor (R). If the circuit is open no current flows. The arrangement is such that current only flows when the bridge (8) approaches the magnet (14) - not when the bridge (8) recedes from the magnet (14). Thus only the magnetic attraction for the bridge (8) by the magnet (14) impedes the movement of the disc (7) as the bridge (8) recedes from the magnet (14) without the disc's movement also being impeded by generation of electric current at that time.

WO 02/060035 A1